

S/051/60/009/004/031/034  
E201/E191

AUTHORS: Viktorova, Ye.N., Kochemirovskiy, A.S.,  
Krasnitskaya, N.D., and Reznikova, I.I.

TITLE: New Examples of Pronounced Dependence of the  
Fluorescence Yield on Position in the Luminescence  
Spectrum 21

PERIODICAL: Optika i spektroskopiya, 1960, Vol 9, No 4, pp 544-546

TEXT: Zelinskiy et al. (Ref 1) showed that in five  
phthalimide derivatives there was a regular relationship between  
the absolute quantum yield of fluorescence ( $q$ ) at 20 °C in various  
solvents and the frequency of the fluorescence spectrum maximum  
( $\nu$ ). The present paper reports a similar dependence of  $q$  on  $\nu$   
in dimethylnaphtharhodine (dimetilnafteyrodin) (I),  
2-amincacridine (II) and cyclohexylaminomaleinimide (III) at 20 °C  
(a figure on p 545). The fluorescence yields were measured  
using a technique described earlier (Ref 4). The values of  $\nu$   
(in  $10^3 \text{ cm}^{-1}$ ) represent solutions in various solvents, such as  
ethyl alcohol, cyclohexanol, cyclohexanone, and so on. For each  
compound (I, II and III)  $q = f(\nu)$  was in the form of  $\wedge$  ,

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New Examples of Pronounced Dependence of the Fluorescence Yield  
on Position in the Luminescence Spectrum

suggesting two different processes of de-activation in the two  
groups of solvents represented by the two branches of  $\wedge$ .  
The fluorescence yield is denoted by  $q_{fl}$  and the fluorescence  
maximum by  $\nu_{fl}^{max}$  in the figure on p 545; numbers in the figure  
(1-20) represent various solvents. Acknowledgement is made to  
V.V. Zelinskiy who directed this work.

There are 1 figure and 7 references: 6 Soviet and 1 English.

SUBMITTED: May 20, 1960

Card 2/2

ZHMYREVA, N.A.; ZELINSKIY, V.V.; KOLOBKOV, V.P.; KOCHENIROVSKIY, A.S.;  
REZNIKOVA, I.I.

Current status of the problem of the effect of the solvent  
on the spectra of complex organic molecules. Izv.AN SSSR.Ser.  
fiz. 24 no.5:596-600 by '60. (MIRA 13:5)  
(Spectrum, Molecular)

ZHMYREVA, I.A.; REZNIKOVA, I.I.

Effect of the size of the solute molecule on the susceptibility  
of its electronic spectra to the action of the solvent. Opt. i  
spektr. 10 no.2:281-284 F '61. (MIRA 14:2)  
(Fluorescence) (Solution (Chemistry)—Spectra)

L 04597-67 EWI(m)/EWP(j) RM

ACC NR: AP6033444

SOURCE CODE: UR/0051/66/021/004/0514 / 0515

AUTHOR: Aristov, A. V.; Maslyukov, Yu. S.; Reznikova, I. I.

37  
B

ORG: none

TITLE: Luminescence of europium chelate solution excited by high-intensity pulsed radiation

SOURCE: Optika i spektroskopiya, v. 21, no. 4, 1966, 514-515

TOPIC TAGS: stimulated emission, chelate, europium chelate, *EUROPIUM COMPOUND, CHELATE COMPOUND, LUMINESCENCE*

ABSTRACT: Luminescence of a frozen (-150C) alcohol solution of europium chelate was studied experimentally. The solution was placed in a simple cell 100 mm long with a 3.5-mm internal diameter with fixed plane mirrors, whose transmission in the 6130 A region was from 1 to 6%. Silver-coated reflectors on a quartz substrate were used as contacts. A fresh solution of europium chelate trioxide with benzoyl acetone and piperidine, EuB<sub>4</sub>HP, was synthesized according to directions given elsewhere (M. L. Bhaumik, J. Phys. Chem., 68, 3, 1490, 1964) and had concentrations of 9·10<sup>18</sup> molecules/cm<sup>3</sup>). The crystals exhibited red triboluminescence. The solution was pumped by two xenon flashlamps in a two-lobe elliptical reflector through a violet and u-v filter. The resultant luminescence along the optical axis was beamed at a UM-2 monochromator and an FEU-17 photomultiplier and an oscillograph. Time variation of the

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UDC: 535.37 : 541.49 : .546.66

L 04597-67

ACC NR: AP6033444

intensity of optical excitation and the solution's luminescence in the 3000—4300 Å region was observed and analyzed for pumping energies from 1350 to 2400 j (threshold energy 1800 j). Stimulated emission of the solution was observed at 6130 Å and at a pumping energy of 2400 j. Orig. art. has: 2 figures.

SUB CODE: 20/ SUBM DATE: 30Nov65/ ORIG REF: 004/ OTH REF: 014/ ATD PRESS: 5100

Card 2/2 *pdh*

REZNIKOVA, I.O.

Effect of water and salt tolerance tests on the renal function in puppies, kittens and young rabbits. Fiziol.zh SSSR 37 no.2:217-224 Mar-Apr 51. (CJML 21:1)

1. Department of Physiology, Military Medical Academy imeni S.M. Kirov, and the Laboratory of Age-Group Physiology, Republic Scientific-Research Pediatric Institute.

БИА.РД. 1.1. В.С. А.Е.У. 1.1.

Список литературы по теме "Синтез белка в эритроцитах человека" (составлен по материалам, собранным в период с 1961 по 1962 гг.).

1. Микробиологический журнал (авт. - проф. Н.М. Орловский) и журнал "Вопросы биологии" (авт. - проф. Н.А. Козлов) "Центрального института генетики и селекции растений" (Институт генетики и селекции растений Академии Наук СССР, Москва).



REZNIKOVA, L.O.

USSR.

The influence of the administration of large amounts of water and salt on the functioning of the kidneys of young dogs. L. O. Reznikova. *Fiziol. Zhur.* 37, 217-24(1951); *Chem. Zentr.* 1952:240. Three hrs. after drinking, dogs 1 month old had excreted only 18-30% of the water taken. This was a lag in excretion as compared to adult animals. The administration of excessive amts. of NaCl (in a water-milk mixt.) to dogs and cats up to 18 days old produced a reduction in diuresis after 1 hr. Like administration of NaCl to rabbits 1.5-3 months old resulted in a pronounced reduction in diuresis or complete anuria. In expts. on dogs and cats up to 1 month old and on rabbits up to 3 months old, only 10-11% of the NaCl administered had been excreted 4 hrs. after administration.

M. G. Moore

PROCESSES AND PROPERTIES INDEX

D. A. McDONALD.

A-3-10

Age characteristics of kidney function in puppies, kittens, and rabbits. L. O. Kazakova *J. Physiol., USSR*, 1950, 20, 408-415. In newly born puppies, kittens, and rabbits, the urine is hypotonic, due to tubular failure to absorb water, and nearly constant in composition due to poor adaptation capacity. The transition to the adult type of renal function takes place more rapidly than in the human, in the puppy at about 14-19 weeks. Capacity to excrete  $Cl^-$  develops earlier than the capacity to concentrate creatinine. D. H. SMYTH.

ASO-SLA METALLURGICAL LITERATURE CLASSIFICATION

MATERIALS INDEX

CROSS REFERENCE

CROSS REFERENCE

BA

11-11

Effect of water and salt intake on function of kidneys in puppies, kittens, and young rabbits. L. O. Reznikova-*J. Physiol., USSR*, 1951, 37, 217-224).—Water and salt solutions were administered to the young animals and the excretion of water and salt followed. This occurs at a much slower rate than in adult animals, and excessive salt intake is followed by a rise in temp. of 1-2°.  
D. H. SMYTH.

ARKHIPOVA, Ye.G.; LYUBANSKIY, V.A.; REZNIKOVA, L.P.

Basic features of thermal conditions of the Caspian Sea and its  
coastal regions. Trudy GOIN no.43:53-100 '58. (MIRA 11:12)  
(Caspian Sea--Temperature)

REZNIKOVA, L.P. (Magadan)

Some peculiarities of influenza. Klin.med. 35 no.11:128-129 N '57.  
(INFLUENZA (MIRA 11:2)  
clin. peculiarities)



REZNIKOVA, L.S.; SERZHANTOVA, T.I.

Effect of temperature on the activity of hemolytic serum in the  
complement fixation reaction. Lab. delo no.2:67-69 '65

(MIRA 18:2)

1. Mikrobiologicheskii otdel (zaveduyushchii - prof. N.k. Ovshinnikov)  
TSentral'nogo kozhno-venerologicheskogo instituta (direktor - kand. med.  
nauk N.M. Turanov), Moskva.

RENNIKOVA, L. S.

"Importance of Microreaction Flocculation in Sero-Diagnostics for Syphilis,"

Vest. Venerol. i Dermatol., No. 1, 1949.

Senior Sci. Assoc., Serological Lab., Central Dermato Venereal Diseases Inst.,

Min. Public Health, -1949-.

WAYNSTEYN, A.B.;REZNIKOVA, L.S.;ASHAVSKAYA, D.L.

Method of drying blood serum. Sovet. med. no.8:30-32 Aug.  
1950. (CIML 20:1)

1. Of the Central Skin-Venereological Institute (Director --  
N. M. Turanov) and of the Hospital imeni Korolenko (Head Physician  
-- V. P. Volkov).

REZNIKOVA, L.S.; SARYCHEVA, L. N.

Nartsissov's active modification in serodiagnosis of syphilis.  
Vest. vener., Moskva no. 3:38-39 May-June 1952. (CJML 22:4)

1. Candidate Biological Sciences for Reznikova. 2. Of the Serological Laboratory (Head -- Prof. N. M. Ovchinnikov), Central Skin-Venereological Institute (Director -- Candidate Medical Sciences N. M. Turanov).

REZNIKOVA, L.S.

Sedimentation reaction on slide with universal antigen for serodiagnosis of syphilis. Sovet. med. 16 no. 6:35-36 June 1952. (CLML 22:4)

1. Of the Serological Laboratory (Head -- Prof. N. M. Ovchinnikov), Central Skin-Venereological Institute (Director -- Candidate Medical Sciences N. M. Turanov), Ministry of Public Health USSR.

REZNIKOVA, L. S.

Cardiolipin antigens in the serodiagnosis of syphilis.  
L. S. Reznikova. *Sov. Med.* 1953, No. 1; 40-2; *Excerpta Med.*, Sect. IV, 7; 309(1954).—Cardiolipin was extd. from 4 kg. ox heart muscle; phospholipin 1 g. and lecithin 1 g. were obtained in the pure state as Na salts. Mixts. of phospholipin, lecithin, and 1% cholesterol soln. were investigated as antigens (10 series prepd.) in the serodiagnosis of syphilis. They were found to have a uniform sensitivity; the optimum ratios of the 3 substances in the mixt. were 1, 2.5, and 15 parts, resp. Titers used for the complement-fixation reaction were 0.001-0.002 in 1 ml. normal saline soln., and for the microflocculation reaction 1 ml. antigen in 2 ml. normal saline soln. The results were satisfactory, a higher positivity being obtained, as compared with standard antigens, in both the Wassermann and the Kahn reaction, especially in cases of latent syphilis and syphilis of the nervous system. R. T. H.

REZNIKOVA, L.S.

New antigens in serodiagnosis of syphilis. Vest.ven.i derm. no.1:  
37-41 Ja-F '54. (MLRA 7:2)

1. Iz serologicheskoy laboratorii (zaveduyushchiy - professor  
N.M.Ovchinnikov) Tsentral'nogo kozhno-venerologicheskogo instituta  
(direktor - kandidat meditsinskikh nauk N.M.Turanov) Ministerstva  
zdravookhraneniya SSSR.  
(Syphilis--Diagnosis) (Antigens and antibodies)

REZNIKOVA, L.S.; SARYCHEVA, L.N.

Sedimentation reaction in vitro with cardiolipin antigen for use  
in serodiagnosis of syphilis. Zhur. mikrobiol. epid. i immun.  
no.6:67 Je '54. (MLRA 7:7)

1. Iz Tsentral'nogo kozhno-venerologicheskogo instituta Mini-  
sterstva zdravookhraneniya SSSR. (SYPHILIS--DIAGNOSIS) (CARDIOLIPIN)

REZNIKOVA, L. S.

FABRIKANT, G.L., kandidat meditsinskiy nauk; REZNIKOVA, L.S., kandidat meditsinskikh nauk

Dynamics of titer changes in the Wassermann reaction in various methods of syphilis therapy in children. Vest. ven. i derm. no.1: 30-34 Ja-F '55. (MIRA 8:4)

1. Iz sifilidologicheskoy kliniki (zav.-prof. M.M.Rayts) Instituta pediatrii AMN (dir.-deyatv. chlen. AMN, zaslushenny deyatel' nauki prof. G.N.Speranskiy) i serologicheskoy laboratorii (zav.-prof. N.M.Ovchinnikov) Tsentral'nogo kozno-venerologicheskogo inst. (dir.-kand. med. nauk N.M.Turanov)

(SYPHILIS, in infant and child

ther., titer of Wassermann reaction, changes in various ther. methods)

(WASSERMANN REACTION

titer changes in various methods of syphilis ther. in children)

REZNIKOVA, L.S.

MD ✓ Biochemical and electrophoretic study of Wasserman-positive serums. L. S. Reznikova and M. I. Meshkov. *Vestnik Venerol. i Dermatol.* 1955, No. 4, 18-24. Serums from recent syphilis patients are characterized by supernormal levels of cholesterol and lipide P. The active principle of Wasserman-pos. serums is a complex material and sepn. of the lipides leads to its decompn. Mech. addn. of lipide to such serum material does not restore the pos. test. The active principle appears to be a lipide-globulin complex which moves in electrophoresis between the  $\beta$ - and  $\gamma$ -globulins. G. M. Kosolapoff.

①

REZNIKOVA, L.S.

Fiftieth anniversary of the Wassermann reaction. Lab.delo 2 no.3:  
3-5 My-Je '56. (MLRA 9:10)

1. Iz mikrobiologicheskogo otdela (zav. - prof. M.N.Ovchinnikov)  
TSentral'nogo kozhno-venerologicheskogo instituta, Moskva.  
(SYPHILIS--DIAGNOSIS--WASSERMANN REACTION)

REZNIKOVA, L.S., kandidat biologicheskikh nauk

On 50th anniversary of the Wassermann reaction. Vest.ven. i derm.  
no.3:33-37 My-Je '56. (MLRA 9:9)

1. Iz mikrobiologicheskogo otdela (zav. - prof. N.M.Ovchinnikov)  
TSentral'nogo kozhno-venerologicheskogo instituta (dir. - kandidat  
meditsinskikh nauk N.M.Turanov) Ministerstva zdravookhraneniya SSSR.  
(WASSERMANN REACTION, history,  
(Rus))

Reznikova, L.S.

✓ Serological and electrophoretic study of sera dried with addition of a stabilizer in serodiagnosis of syphilis. L. S. Reznikova, E. A. Ievleva, L. N. Sarycheva, and R. S. Petrova. *Vestnik Venerol. i Dermatol.* 30, No. 2, 25-8 (1956).—Serum dried without a stabilizer (40% sugar) shows a decline in serological potency as well as changes in the electrophoretic pattern, which indicates the loss of  $\gamma$ -globulin and a merger of the globulin fractions, which remain into a single electrophoretic peak. G. M. K.

Med 4

REZNIKOVA, L.S.

✓ Antigen from plant materials for serological tests for syphilis. L. S. Reznikova. *Vestnik Venerol. i Dermatol.* 30, No. 6, 43-5 (1950); cf. C.A. 49, 14153d. — Antigen prepd. from soybean meal or wheat meal gave 97.66-97.88% coincident indications in the Wassermann test in comparison with usual antigens. Potato meal gave unsatisfactory results, while meal from almond grains gave 98.38% coincidence. G. M. Korolapoff

~~REZNIKOVA, I.S.~~

Improved method for pouring ingredients in serological reactions.  
Lab.delo 3 no.5:56-58 S-0 '57. (MIRA 11:2)

1. Iz mikrobiologicheskogo otdela (zav. - prof. N.M.Ovchinnikov)  
TSentral'nogo kozhno-venerologicheskogo instituta, Moskva.  
(SERUM DIAGNOSIS)

STEPANISHCHEVA, Z.G.; REZNIKOVA, L.S.

Serological changes in rabbit blood following immunization with  
yeast vaccine. Zhur.mikrobiol.epid. i imun. 30 no.1:38-43 Ja '58.  
(MIRA 12:3)

1. Iz TSentral'nogo nauchno-issledovatel'skogo kozhno-venerologiče-  
skogo instituta.

(MONILIASIS, immunol.

vacc., serol. aspects in rabbits (Rus))

STUDNITSIN, A.A.; REZNIKOVA, I.S.; ASHAVSKAYA, D.L.

Comparative value of nonspecific and cardiolipin antigens in  
the examination of cerebrospinal fluid in syphilitic. Vest.  
derm. i ven. no. 1:65-69 '65. (MIRA 18:10)

1. Tsentral'nyy kozhno-venerologicheskiy institut (dir. = kand.  
med. nauk N.M. Turanov, zamestitel' direktora po nauchnoy chasti  
prof. A.A. Studnitsin) i Bol'nitsa imeni Korolenko (glavnyy  
vrach A.I. Pustovaya), Moskva.



REZNIKOVA, L.S.; STOYANOVA, O.A.

Standardization of ram blood suspension by photoelectrocolorimetry  
(FEK-M) for the complement fixation test (RSK). Vest. dermat. i ven.  
37 no.5:46-48 My '63. (MIRA 17:5)

1. Mikrobiologicheskii otdel (zav. - prof. N.M. Ovchinnikov)  
TSentral'nogo kozhno-venerologicheskogo instituta (dir. - kand.  
med. nauk N.M. Turanov) Ministerstva zdравookhraneniya RSFSR.

REZNIKOVA, L.S.; STOYANOVA, O.A.

Experience in the use of cow serum instead of immune rabbit  
hemolysin in complement fixation reaction. Zhur. mikrobiol.,  
epid. i immun. 40 no.6:119-121 Je '63. (MIRA 17:6)

1. Iz Tsentral'nogo kozhno-venerologicheskogo instituta.

BEKTIKOVA, L.S.

Comparative evaluation of microreactions in syphilis (with  
active blood plasma and inactivated and active sera). Vestn.  
derm. i ven. 37 no.8:42-46 Ag'63 (MIRA 1963)

1. Mikrobiologicheskiy otdel (zav. - prof. N.M. Ovchinnikov)  
TSentral'nogo kozhno-venerologicheskogo instituta (dir. - kand.  
med. nauk N.M. Turanov).

REZNIKOVA, Lyusi Solomonovna; EPSHTEYN-LITVAK, Rakhil' Veniaminovna;  
LEVI, Moisey Iosifovich; SOKOLOV, N.I., red.; LYUDKOVSKAYA,  
N.I., tekhn. red.

[Serological methodology of research in the diagnosis of com-  
municable diseases] Serologicheskie metody issledovaniia pri  
diagnostike infektsionnykh boleznei. Moskva, Medgiz, 1962.  
370 p. (MIRA 16:3)

(SERUM DIAGNOSIS) (COMMUNICABLE DISEASES)

REZNIKOVA, L. S., doktor med. nauk; SEL'TSOVSKAYA, G. S.

Study of the possibility of substituting the Wassermann reaction in examining donors in emergency cases by microsedimentation reactions on a slide. Probl. gemat. i perel. krovi 7 no.7:19-22 J1 '62.  
(MIRA 15:7)

1. Iz TSentral'nogo kozhno-venerologicheskogo instituta i TSentral'nogo instituta gematologii i perelivaniya krovi.

(BLOOD DONORS) (SYPHILIS—DIAGNOSIS—WASSERMANN REACTION)  
(BLOOD—COLLECTION AND PRESERVATION)

REZNIKOVA, L. S.; STOYANOVA, O. A.

Wassermann reaction with preserved ingredients. Vest. dermat. i ven.  
34 no.1:57-63 Ja '60. (MIRA 14:12)

1. Iz mikrobiologicheskogo otdela (zav. - prof. N. M. Ovchinnikov)  
TSentral'nogo kozhno-venerologicheskogo instituta (dir. - kandidat  
meditsinskikh nauk N. M. Turanov) Ministerstva zdravookhraneniya  
RSFSR.

(SYPHILIS--WASSERMAN REACTION)

REZNIKOVA, L.S.

Complement fixation reaction after 50% hemolysis in syphilis.  
Lab.delo 7 no.11:10-13 N '61. (MIR: 14:10)

1. Mikrobiologicheskiiy otdel Tsentral'nogo kozhno-venerologicheskogo  
instituta, Moskva.  
(HEMOLYSIS AND HEMOLYSINS) (COMPLEMENT FIXATION)  
(SYPHILIS)

REZNIKOVA, L.S.

Properdin and its significance. Lab. delo 7 no.10:4-8 0 '61.

(MIRA 14:10)

1. Mikrobiologicheskiy otdel (zav. - prof. N.M.Ovchinnikov) Tsentral'nogo  
kozhno-venerologicheskogo instituta, Moskva.

(PROPERDIN)

OVCHINNIKOV, N.M.; AKOPYAN, A.T.; SMELOV, N.S.; RAKHMALEVICH, E.M.;  
BELYAYEVA, E.F.; ZERTSALOVA, G.N.; ZALKIN, N.M.; REZNIKOVA, I.S.;  
AVAKYAN, A.A.

Data on the etiology of pemphigus. *Borgyogy. vener. szemle* 36 no.5:  
193-200 S '60.

1. Az Orosz Szocialista Szovetsegi Koztarsasag Egeszsegugyi  
Miniszteriuma Kozponti Bor-Nemikortani Intezetenek (Igazgato:  
Turanov N.M., az orvostudomanyok kandidatusa es a Poliomyelitis-  
kutato Intezet (Igazgato: prof. Csumakov M.I., a Szovjet  
Tudomanyos Akademia levelezo tagja) kozlemenye.  
(PEMPHIGUS etiol)

OVCHINNIKOV, N.M.; EL'PINER, I.Ye.; REZNIKOVA, L.S.; SUPRUN, Ye.T.

Sound-treated antigens in the serodiagnosis of syphilis and gonorrhoea.  
Tab.delo 7 no.738-41 JI '61. (MIRA 14:6)

1. Mikrobiologicheskiy otdel (zav. - prof. N.M.Ovchinnikov)  
TSentral'nogo nauchno-issledovatel'skogo kozhno-venerologicheskogo  
instituta i laboratorii ul'trazvuka (zav. - prof. I.Ye.El'piner)  
instituta biofiziki AN SSSR, Moskva.  
(ANTIGENS AND ANTIBODIES) (SYPHILIS)  
(GONORRHEA)

REZNIKOVA, L.S.; STOYANOVA, D.A.

Complement fixation reaction under cold conditions in the diagnosis  
of syphilis. Lab. delo 7 no.3:28-29 Mr '61. (MIRA 14:3)

1. Mikrobiologicheskii otdel (zav. - prof. N.M.Ovchinnikov) Tsentral'-  
nogo kozhno-venerologicheskogo instituta, Moskva.  
(COMPLEMENT FIXATION) (SYPHILIS---DIAGNOSIS)

TURANOV, N.M.; REZNIKOVA, L.S.

Universal Kahn reaction in patients with latent and seroresistant  
syphilis. Vest.derm.i ven. 33 no.6:54-57 N-D '59.

(MIRA 13:12)

(SYPHILIS)

REZNIKOVA, L.S.

Rapid active modification of complement fixation with fresh blood  
for the diagnosis of syphilis. Vest.derm.i ven. 34 no.3:67-69  
My-Je '60. (MIRA 13:10)

(SYPHILIS)

(COMPLEMENT FIXATION)

REZNIKOVA, L.S. (Moskva)

Modern status of problems in the serology of syphilis; a survey  
of the literature. Lab.delo 6 [i.e.4] no.4:5-8 JI-Ag '58 (MIRA 11:9)  
(SYPHILIS)  
(ANTIGENS AND ANTIBODIES)

KOUT, M.; HERZOG, P.; technicka spoluprace: REZNICKOVA, M.

Certain immuno-hematological findings in iso-immunization in pregnancy. Cesk.pediat.16 no.3:216-222 Mr '61.

1. Ustav hematologie a krevni transfuze v Praze, reditel prof. dr. J. Horejsi.

(PREGNANCY)  
(RH FACTORS)

SHVACHKIN, Yu.P.; NOVIKOVA, M.A.; REZNIKOVA, M.B.; PADYUKOVA, N.Sh.

New synthesis and feasibility of the fermentative activation of  
 $\beta$ -(4-hydroxy-2-pyrimidinyl)alanine. Zhur.ob.khim. 33 no.12:4022-  
4023 D '63. (MIRA 17:3)

1. Moskovskiy gosudarstvennyy universitet i Institut khimii prirodnykh  
soyedineniy AN SSSR.

REZNIKOVA, N.B.; NOVICHOVA, M.A.; ZHDANOV, G.I.;

Activation of certain analogs of amino acids in the presence of  
the total fraction of pH 5 enzymes of E. coli B. Dokl. AN SSSR  
161 no.1:125-127 Mr '65. (MIRA 18:3)

1. Institut khimii prirodnikh soyedineniy AN SSSR. Submitted  
September 21, 1964.

BEAUFORT, M.D.

Abstract of article in Soviet journal, "Voprosy Psichologii",  
present in the periodical "Soviet Psychology", 1974,  
Sovkhenia 50 no. 4, pp. 1-10.

1. Insults RSM. (Soviet journal, "Voprosy Psichologii", 1974, no. 4, pp. 1-10.)

ARZHELAS, L.K.; LUTCHEVA, Ye.S.; REZNIKOVA, M.N.; POTAPOV, M.I.; SOLOV'YEVA,  
N.A.

Detection and investigation in human sera of antibodies to the  
agglutinogens P, S, Le, Lu, K, Fy. Sud-med.ekspert. 3 no.1:27-  
32 Ja-Mr '60. (MIRA 13:5)

1. Nauchno-issledovatel'skiy institut sudebnoy meditsiny (dir. -  
prof. V.I. Prozorovskiy) Ministerstva zdravookhraneniya SSSR.  
(AGGLUTINOGENS) (ANTIGENS AND ANTIBODIES)

REZNIKOVA, M. N., Physician, Cand. Med. Sci.

Dissertation: "Changes in the Activity of Group and Type Characteristics of Human Blood under Influence of Acids and Alkalies." Second Moscow State Medical Inst. imeni I. V. Stalin, 19 May 1947.

SO: Vechernyaya Moskva, May 1947 (Project #17836)

KOSYAKOV, P.N.; REZNIKOVA, M.N. (Moskva)

Immunobiological features of antibody formation. Usp. sov. biol.  
40 no.3:320-330 N-D '55. (MLRA 9:4)

(ANTIGENS AND ANTIBODIES)

KOSYAKOV, P.N.; REZNIKOVA, M.N.

Factors of immune reactivity in animals. Biul.eksp.biol. i med. 42  
no.10:49-53 O '56. (MLBA 9:12)

1. Iz Instituta virusologii imeni D.I.Ivanovskogo (dir. - prof. P.N. Kosyakov) AMN SSSR i Tsentral'nogo nauchno-issledovatel'skogo instituta sudebnoy meditsiny (dir. - prof. V.I.Prozorovskiy) Ministerstva zdravookhraneniya SSSR, Moskva.

(IMMUNE SERUMS, effects,  
in animals, mechanism of reactivity (Rus))

KOSYAKOV, P.N.; REZNIKOVA, M.N.

Factors influencing the specificity of formation of immune sera.  
Biul. eksp. biol. i med. 42 no. 11:45-48 N '56. (MLRA 10:1)

1. Iz Instituta virusologii imeni D.I. Ivanovskogo AMN SSSR (dir. -  
prof. P.N. Kosyakov) i Tsentral'nogo nauchno-issledovatel'skogo  
instituta sudebnoy meditsiny Ministerstva zdravookhraneniya SSSR  
(dir. - prof. V.I. Prozorovskiy) Predstavleno deystvitel'nym chlenom  
AMN SSSR N.N. Zhukovym-Verezhnikovym.

(IMMUNE SERUMS,  
serm., specificity (Rus))

REZNIKOVA, M.N.

Determination of the group affiliation of discharges and cells of the human body by means of the precipitation reaction. Sud.-med. ekspert. no.4:28-31 O-D '65. (MIRA 18:12)

1. Nauchno-issledovatel'skiy institut sudebnoy meditsiny (direktor - prof. V.I.Prozorovskiy) Ministerstva zdravookhraneniya SSSR, Moskva. Submitted September 25, 1964.

SOV/137-58-11-23813

Translation from: Referativnyy zhurnal. Metallurgiya, 1958, Nr 11, p 277 (USSR)

AUTHOR: Reznikova, N. I.

TITLE: Determination of Magnesium in Aluminum Alloys by the Complexometric [Chelatometric] Method (Kompleksometricheskiiy metod opredeleniya magniya v alyuminiyevykh splavakh)

PERIODICAL: V sb.: Mashinostroitel' Belorussii. Nr 4. Minsk, 1957, pp 148-149

ABSTRACT: The author points out that existing methods for determining Mg in Al alloys are not sufficiently rapid. The following analysis is proposed. One g of the alloy is dissolved in 40 cc of 15% NaOH solution, 150-200 cc of water are added and the solution is filtered through a Büchner funnel. The precipitate is dissolved in 20-30 cc HNO<sub>3</sub> (2:1) and Cu is determined electrolytically. To the Cu-free solution 5-10 g NH<sub>4</sub> Cl are added, and in the presence of ammonium persulfate (I) Fe and Mn are precipitated with 20 cc of ammonia. In the filtrate, after decomposing I, Ni is precipitated with dimethylglyoxime. In the filtrate Mg is determined by adding 10 cc buffer solution (65 g NH<sub>4</sub> Cl are dissolved in 200 cc of water, 570 cc of 25% NH<sub>4</sub>OH solution are added, and the whole is diluted to 1 liter with water), 10 cc of 25% NH<sub>4</sub>OH

Card 1/2

SOV/137-58-11-23813

Determination of Magnesium in Aluminum Alloys (cont.)

solution and 5 drops of chrome-dark blue indicator and titrating with sodium ver-  
senate B solution until the color changes from wine-red to blue-violet.

Z. G.

Card 2/2

REZNIKOVA, N.I., inzh.

Complexometric determination of magnesium in aluminum alloys.  
Mash.Bel. no.4:148-149 '57. (MIRA 11:9)  
(Aluminum-magnesium alloys--Analysis)

REZNIKOVA, N.L. [Reznykova, N.L.]

Changes in fluctuations of electric potential at an active point  
of the skin during the movements of an empty stomach [with summary  
in English]. Fiziol. zhur. [Ukr.] 4 no.2:170-174' Mr-Ap '58.

(MIRA 11:5)

(ELECTROPHYSIOLOGY) (STOMACH)

REZNIKOVA, N.L.

Changes in the oscillation of electric potentials of the active point of the skin and gastric mucosa during gastric motor activity. Fiziol. zhur. [Ukr.] 7 no.5:632-635 S-0 '61. (MIRA 14:9)

1. Laboratory of Higher Nervous Activity and Trophic Functions of the A.A.Bogomoletz Institute of Physiology of the Academy of Sciences of Ukrainian S.S.R., Kiev.

(ELECTROPHYSIOLOGY) (SKIN)

(GASTROINTESTINAL MOTILITY)

REZNIKOVA, N.L.

Reflection of the functional state of the human bladder in the  
corresponding active skin area. Fiziol.zhur. [Ukr.] 2 no.6:64-66  
N-D '56. (MLRA 10:2)

1. Institut fiziologii imeni O.O.Bogomol'tsya Akademii nauk URSR,  
laboratoriya vishchoi nervovoi diyal'nosti i nervovoi trofiki.  
(BLADDER) (ELECTROPHYSIOLOGY)

REZNIKOVA, N.L. [Reznykova, N.L.]

Effect of the filling speed of the stomach on variations in  
the electric potential at an "active point" of the skin.  
Fiziol.zhur. [Ukr.] 5 no.4:477-480 J1-Ag '59. (MIRA 12:11)

1. Institut fiziologii im. A.A.Bogomol'tsa AN USSR, laboratoriya  
vyshey nervnoy deyatel'nosti i trofichnhkh funktsiy.  
(STOMACH) (ELECTROPHYSIOLOGY)

REZNIKOVA, N.L.

Effect of the filling rate of hollow organs (intestines, bladder)  
on the value of the electrical potential of active skin areas. *Fiziol.*  
*zhur.[Ukr.]* 1 no.6:92-100 N-D '55. (MLRA 10:1)

1. Institut fiziologii imeni O.O.Bogomol'tsya Akademii nauk URSS,  
laboratoriya vishchoi nervovoi diyal'nosti i trofichnikh funktsiy  
nervovoi sistemi.

(ELECTROPHYSIOLOGY) (BLADDER) (DUODENUM)

REZNIKOVA, N. P.

"Investigation of the Operating Parts of Single Scoop Loaders." Card  
Tech Sci, Moscow Order of Lenin and Order of Labor Red Banner Inst of Railroad  
Transport Engineers imeni I. V. Stalin, Min Railroads USSR, Moscow, 1955.  
(KL, No 18, Apr 55).

SO: Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations  
Defended at USSR Higher Educational Institutions (16).

YUDIN, D.L., dots., kand.tekhn.nauk; REZNIKOVA, N.P., kand.tekhn.nauk.  
PORKACHEV, M.A., inzh.

Mechanical reinforcing of gear teeth along the whole profile.  
Elek.i tepl.tiaga 14 no.3:25-26 Mr '60. (MIRA 13:7)

1. Moskovskiy institut inzhenerov zheleznodorozhnogo transporta.  
(Gearing, Spur)

REZNIKOVA, N.P., kand. tekhn. nauk

Strain hardening of gear wheel teeth and the investigation of  
fatigue strength. Trudy MATI no.60:119-130 '64. (MIRA 17:11)

L 27907-65 EWT(m)/EWA(d)/EWP(t)/EWP(k)/EWP(b) MJW/JD  
ACCESSION NR: AT5001358 S/2536/64/000/060/0119/0130

AUTHOR: Reznikova, N.P. (Candidate of technical sciences)

TITLE: Mechanical strengthening of gear teeth and a study of fatigue strength

SOURCE: Moscow, Aviatsonnyy tekhnologicheskly Institut. Trudy, no. 60, 1964.  
Povysheniye resursa raboty aviatsionnykh detaley tekhnologicheskimi sredstvami (In-  
creasing the efficiency potential of aircraft parts by technological procedures), 119-130

TOPIC TAGS: gear fatigue, fatigue strength, gear tooth fatigue, fatigue crack, wear  
resistance, torsion yield point, milling, cold hardening, material strengthening, mechanic-  
al strengthening, steel 45Kh

ABSTRACT: The author calls attention to the fact that gear transmission systems, sub-  
jected during their operation to considerable dynamic loads, fail primarily because of  
the origination and gradual development of fatigue cracks or fissures at the base of the  
teeth. The point is made that longer service life and enhanced reliability in the work of  
gear transmissions require, among other things, that the material be strengthened by  
those techniques which ensure not only increased wear-resistance on the part of the  
teeth but also, and primarily, a higher yield point in the face of dynamic twisting of the  
teeth. Mechanical methods of strengthening are useful in this connection. Such methods

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ACCESSION NR: AT5001358

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may include knurling (milling) of the tooth by means of rollers, cold-hardening of the surface of action of the tooth by means of metal-shot blasting, drum milling, etc. In the present article, some results of experimental studies on the mechanical strengthening of gear teeth along the entire profile are discussed. The investigations conducted included: 1. experimental mechanical strengthening of the teeth along the entire profile; 2. determination of the mechanical properties and microstructure of strengthened teeth in comparison with unstrengthened; 3. fatigue-testing of unstrengthened gears and those mechanically strengthened along the entire profile. The gear teeth depressions were strengthened on an experimental 30-ton machine (the IMCh-30) by means of a punch in a special closed arrangement. This unit is described in the article and the details of its operation are made clear. The material used in the gears tested was steel type 45Kh. The actual method of mechanical strengthening is described in great detail in the article. Samples with and without previous heat treatment were mechanically strengthened. Vickers hardness tests were made to determine the depth and degree of strengthening. The tabular data presented in the article show clearly that there was an increase in hardness after mechanical strengthening for both types of gear samples. Surface hardness in the different test zones, after strengthening, was found to vary, being greater in the depression than on the lateral surface. The fatigue-strength tests, described in the article, would appear to indicate that after mechanical strengthening teeth strength

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ACCESSION NR: AT5001358

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increases, with the best results forthcoming for teeth of gears which have been subjected to preliminary "improvement" (hardening and high-temperature tempering). The results of this part of the study are presented in the form of "endurance curves" for the dynamic load twisting of the teeth of both the "improved" and "raw" gears. "The work was carried out at MIT under the supervision of Docent D. L. Yudin (Bach. Tech. Sci.)." Orig. art. has: 2 tables, 4 formulas and 8 figures.

ASSOCIATION: Moskovskiy aviatsionnyy tekhnologicheskij institut (Moscow aeronautical engineering institute)

SUBMITTED: 00

ENCL: 00

SUB CODE: IE

NO REF SOV: 008

OTHER: 000

Card 3/3

YUR'YEV, V.M.; TELESHOVA, A.S.; APTEKAR', Ye.L.; ARDASHNIKOV, A.Ya.;  
REZNIKOVA, O.Ya.; PRAVEDNIKOV, A.N.

Use of ion-sorption ESh-1 pumps in the MI-1305 mass-spectrometer.  
Zav.lab. 30 no.3:375-376 '64. (MIRA 17:4)

1. Nauchno-issledovatel'skiy fiziko-khimicheskiy institut imeni  
Karpova.

REZNIKOVA, O.Yu.; MARISOVA, A.P.; GORELOVA, I.L.

Bacterial picture in pneumonias in children and resistance of  
Pneumococcus to sulfapyridine and penicillin. First report:  
Significance of Pneumococcus in pneumonia in children. *Pediat-*  
*riia* no.2:22-26 Mr-Ap '54. (MLRA 7:6)

1. Iz Rostovskogo nauchno-issledovatel'skogo instituta epidemio-  
logii, mikrobiologii i gigeny (dir. dotsent A.A.Velikiy),  
(PNEUMONIA, bacteriology,  
\*Pneumococcus in child.)  
(PNEUMOCOCCAL INFECTIONS,  
\*pneumonia in child.)

REZNIKOVA, O.Yu; Soboleva, Ye.S.

Causes of refractoriness in children immunized with diphtheria  
anatoxin; authors' abstract. Zhur.mikrobiol.epid.i.immun. no.8:  
46-47 Ag '54. (MLRA 7:9)

1. Iz Rostovskogo-na-Donu nauchno-issledovatel'skogo instituta  
epidemiologii, mikrobiologii i gigiyeny (dir. Ye.S.Soboleva)  
(DIPHTHERIA, prevention and control,  
\*anatoxin, causes of refractivity)

ROZOVA, Z.A.; CHERNENKOVA, N.A.; REZNIKOVA, O.Yu.; BOBYREVA, N.D.;  
KIREYEVA, O.K.

Preventive effectiveness of dry diving vaccine against brucellosis developed by the Institute of Experimental Medicine of the Academy of Medical Sciences of the U.S.S.R. Zhur. mikrobiol. epid. i immun. no.11:62-66 N '54. (MLRA 8:1)

1. Iz Rostovskoy oblastnoy protivobrutsellesnoy stantsii (glavnyy vrach Z.A.Rozova, nauchnyy rukovoditel' kandidat meditsinskikh nauk G.A.Balandin)

(BRUCELLOSIS, prevention and control,  
vacc., dry living vaccine)

(VACCINES AND VACCINATION,  
brucellosis vacc., dry living vaccine)

REZNIKOVA, O.Yu.; MORISOVA, A.P., GORELOVA, I.L.

Bacterial picture in pneumonias in children and pneumococcal resistance to sulfapyridine and penicillin. II. Sulfapyridine and penicillin resistance of pneumococci isolated from children with pneumonia. *Pediatrics* no.1:21-24 Ja-F '55. (MLRA 8:5)

1. Iz Rostovskogo-na-Donu nauchno-issledovatel'skogo instituta epidemiologii, mikrobiologii i gigeny (dir. dotsent A.A.Velikiy).

(PNEUMOCOCCUS INFECTIONS,

pneumonia in child., penicillin & sulfonamide resist. of isolated bact.)

(PNEUMONIA, in infant and child.,

pneumococcal resist. to penicillin & sulfonamides after isolation in child.)

(PENICILLIN, effects,

on pneumococcus isolated in pneumonia in child., resist.)

(SULFONAMIDES, effects,

on pneumococcus isolated in pneumonia in child., resist.)

REZNIKOVA, O.Yu; SOBOLEVA, Ye.S.; KARNITSKAYA, N.V.; TRUSEVICH, A.I.

Prevention of seasonal catarrhs with an ekmolin and penicillin mixture. Zhur.mikrobiol. epid.i immun. no.7:48 J1. '55.(MLBA 8:10)

1. Iz Rostovskogo-na-Donu instituta epidemiologii, mikrobiologii i gigiyeny dir. Ye.S.Sobeleva, i Rostovskoy gorodskoy sanitarno-epidemiologicheskoy stantsii; glavnyy vrach G.A.Tsaturova.

(COMMON COLD, prevention and control,  
antibiotic ekmoline with penicillin)

(ANTIBIOTICS, therapeutic use,  
ekmoline, prev. of common cold, with penicillin)

(PENICILLIN, therapeutic use,  
common, cold, prev.,with antibiotic ekmoline)

REZNIKOVA, O. Yu., BOBYREVA, N. D., ROZOVA, Z. A., KIREYEVA, O.K., and  
CHERNENKOVA, N. A.

"Epidemiological Effectiveness of Prophylaxis With the Dry Live  
Brucellosis Vaccine of the Institute of Epidemiology and Micro-  
biology, Academy of Medical Sciences USSR," by Z. A. Rozova,  
N. A. Chernenkova, O. Yu. Reznikova, N. D. Bobyрева, and O. K.  
Kireyeva, Rostovskaya Oblast Antibrucellosis Station, Zhurnal  
Mikrobiologii, Epidemiologii i Immunobiologii, No 10, Oct 56,  
pp 79-82

This article reports in detail the results of a study of vaccine pro-  
phylaxis of brucellosis on 4,315 persons working in a sheep- and goat-  
processing meat combine in Rostovskaya Oblast from 1950 to 1954. Perma-  
nently and seasonally employed workers who reacted negatively to the  
Huddleson, Wright, or Burnet reaction tests were vaccinated. This proce-  
dure was followed each year before the heavy slaughter program during  
the fall-winter period. The incidence of brucellosis among workers vac-  
cinated with the dry live vaccine was "10-32 times" lower than that among  
nonvaccinated workers; the ratio of brucellosis cases among vaccinated  
workers was 1:30-1:103 and among unvaccinated workers 1:7-1:10.

From 1947 to 1949 workers at this meat combine were vaccinated with a killed (heat-treated or formolized) vaccine. The incidence rate among workers vaccinated with this vaccine was 1.7-1.9%, i.e., 1.4-4.7 times greater than that among those vaccinated with the dry live vaccine (0.4-0.9%)

Hemocultures of melitensis type Brucella were isolated in only 26.6% of the cases which developed among vaccinated persons. The disease was incurred from one month to 3 years 10 months after vaccination. A comparison of results of the Huddleson and Burnet tests is given in a table.

[Comment: From the statistics introduced in the article, it can be seen that the incidence rate among unvaccinated workers for the 5-year period was only 0.3-1.1%. If, as is stated, the rate among vaccinated workers was 0.4-0.9%, the effect of the vaccine would appear to be negligible.]

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REZNIKOVA, O.Yu.; AVROROVA, R.I.

Characteristics of strains of influenza virus isolated in Rostov-  
on Don in 1957. Vop.virus. 4 no.5:585-589 S-O '59. (MIRA 13:2)

1. Rostovskiy institut epidemiologii, mikrobiologii i gigiyeny i  
kafedra mikrobiologii Rostovskogo meditsinskogo instituta.  
(INFLUENZA, virology)

ROZOVA, Z.A.; CHERNENKOVA, N.A.; REZNIKOVA, O.Yu.; BOBYREVA, N.D.; KIRNYEVA,  
O.K.

Epidemiologic effectiveness of prophylaxis with dry living vaccine  
from the Institute of Epidemiology and Microbiology of the Academy  
of Medicine of the U.S.S.R. Zhur.mikrobiol. epid. i immun. 27 no.  
10:79-82 0 '56. (MIRA 9:11)

1. Iz Rostovskoy oblastnoy protivobrutselleznoy stantsii.  
(BRUCELLOSIS, prevention and control,  
in Russia, vacc. (Rus))



REZNIKOVA, R. A.

4513. Plasticising polyvinyl chloride with butadiene-nitrile copolymer. I. The effect of the concentration of the butadiene and the nitrile groups in the butadiene-nitrile copolymer on the compatibility of the polymers and the plasticiser effect. R. A. REZNIKOVA, A. D. ZAIONCHIKOVSKIY, and S. S. VOVUTSKIY *Kolloid. Zhur.*, 1953, 15, 108-10; *Chem. Abs.*, 1953, 47, 7815. Five copolymers of acrylonitrile and butadiene, containing 11.7 to 49.8% acrylonitrile, were prepared and the swelling and tension strength of their vulcanisates determined. These copolymers were mixed with polyvinyl chloride and formed into films. The dependence of the tension strength of the film on both the plasticising copolymer content and the acrylonitrile content was investigated. In general, it was concluded that the high mol./wt. plasticiser must have polar and non-polar groups. When the ratio of non-polar to polar is great, the plasticiser does not mix well with the host and the strength of the resulting film is small. When this ratio is too great, the film is brittle.

Rubber abs.  
 V-31 Nov 1953  
 Synthetic Rubbers  
 & Like Products

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7-13-54

*REZNIKOVA R.A.*

PISARENKO, A.P., professor, doktor khimicheskikh nauk; REZNIKOVA, R.A.,  
kandidat tekhnicheskikh nauk.

New type of glue for gluing polyisobutylene sheets to metal. Leg.  
prom. 14 no.10:23-26 0 '54. (MLRA 7:11)  
(Glue)

REZNIKOVA, R.A.

Plasticizing polyvinyl chloride with butadiene-acrylonitrile copolymer. II. Alteration of the physico-mechanical properties of polyvinyl chloride by adding to it various proportions of butadiene-nitrile copolymer. R. A. Reznikova, S. S. Vorutskii, and A. D. Zalonchovskii (Central Sci. Research Inst. Leather Substitutes, Moscow). *Kolloid. Zhur.* 16, 204-10(1954); cf. *C.A.* 47, 7816a.—The tensile strength  $P$

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(referred to the initial cross section) of polyvinyl chloride (I) was, e.g., 600 kg. per sq. cm. at 20°, 130 at 80°, etc. Addn. of butadiene-acrylonitrile copolymer (II), and, especially, of di-Bu phthalate (III) decreased  $P$ . In no instance was the graph of  $\ln P$  against  $(1/\text{temp.})$  a straight line. The total elongation  $\epsilon$  had a max. at approx. 50% I + 50% III at 20° and 100°; at other temps.  $\epsilon$  increased with the amt. of III. In the system I + II,  $\epsilon$  increased with the amt. of II; at high concn. of II, it was greater, the lower the temp. (20°-125°). The tensile strength referred to the final cross-section, i.e.,  $P(1 + \epsilon)$ , had a max. at a middle compn. of I + II and I + III mixes. at every temp.; the plasticizer made the orientation of the mol. chains of I easier. II was a better plasticizer than III, especially at low temps. J. J. Bikerman

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*Reznikova, R.A.*

541.64 : 535.43

2786. INVESTIGATION OF THE SCATTERING OF LIGHT IN MIXTURES OF HIGH POLYMERS / S.S.Voyutskii, A.D.Zafonchkovskii, V.A.Kargin and R.A.Reznikova.

Dokl. Akad. Nauk ~~Sov. Union~~, vol. 94, No. 6, 1093-6 (1954). In Russian.

From studies of the scattering of light by unstretched and stretched films, and of the effect of stretching of the films on their density, it is concluded that when fairly rigid polymer films are stretched, regions of lowered density or even voids may be formed due to the unequal distribution of stresses in the films, and that in polymers which are single-phase systems to all outward appearance, heterogeneities may form considerably larger than those to be found in low-molecular substances.

R.C.Murray

*Phy*

*DM MK*

Reznikova, R. A.

67 ✓ Investigation of the Magnetostriction of Nickel-Iron Alloys in Strong Magnetic Fields. G. P. D'yakov and R. A. Reznikova (*Doklady Akad. Nauk S.S.S.R.*, 1964, 87, (4), 633-634).—  
 (In Russian). D. and R. measured the dependence of the magnetostriction of Ni-41% Fe alloy on the magnetizing force ( $H$ ), using Goldman's method (*Phys. Rev.*, 1947, [II], 72, 559; *M.A.*, 15, 463); the strain gauges were of Nichrome wire of 18  $\mu$  dia. The alloy was prepared by melting carbonyl Fe and electrolytic Ni in an induction furnace under Mo glass as flux, casting two cylinders, drawing these out into wires 260 mm.  $\times$  2.6 mm. dia., annealing for 2 hr. at 800° C. and cooling slowly in the furnace. The results are shown as plots of  $(\lambda, -\lambda)$  versus  $H^{-2}$ ; lines of slope  $\tan \phi = 1.11 \times 10^{-4}$  and  $1.18 \times 10^{-4}$ , resp. being obtained for the two specimens. This confirmed the formula obtained by D. (*ibid.*, 1949, 68, 33; *M.A.*, 20, 530):  $\lambda = \lambda_s \left( 1 - \frac{32 K^2}{35 J^2 H^2} \right)$ , where  $\lambda_s$  is the saturation magnetostriction,  $K$  the const. of magnetic anisotropy, and  $J$  the saturation magnetization. From this  $\tan \phi = \frac{32 K^2}{35 J^2}$ . By measurement,  $J_s = 1175$  gauss and  $\lambda_s = 18.44 \times 10^{-4}$ , so that  $K = 9.8 \times 10^3$  ergs/c.c. This agrees well with the value of  $K = 11 \times 10^3$  ergs/c.c. obtained experimentally for an alloy with nearly the same composition by Vonsovsky and Shur ("Ferromagnetizm," 1948), and that of  $K = 8 \times 10^3$  obtained by Puzei (*Izvest. Akad. Nauk S.S.S.R.*, 1962, [Fiz.], 18, 552) for an alloy contg. 58.2% Ni.

—G. V. E. T.

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USSR, Physics - Colloids:

FD-3111

Card 1/2 Pub. 153 - 10/24

Author : Reznikova, R. A.; Zayonchkovskiy, A. D.; Voyutskiy, S. S.

Title : Plasticization of polyvinyl chloride by butadiene nitril copolymer. III. Influence on the temperature of vitrification and flow of polyvinyl chloride of the introduction into it of various quantities of butadiene nitril copolymer

Periodical : Zhur. tekhn. fiz., 25, No 6 (June), 1955, 1045-1052

Abstract : In preceding communications on plasticizing influence of high-molecular softening agent upon polyvinyl chloride the authors discussed such physical and mechanical characteristics of the films as resistance to tear and residual and ruptive elongation (Kolloidn. zhurn., 15, 103, 1953); however, the most typical action of a plasticizer on a polymer is the displacement of the temperature interval of high-elastic state into the region of lower temperatures. The authors accordingly thought it interesting to investigate how the introduction in a polymer of various amounts of high-molecular plasticizer butadiene nitril copolymer influences the temperature of transition of polyvinyl chloride from vitrified state to high-elastic state and from high-elastic state to viscous flowing state. In the work the authors describe experiments conducted with polyvinyl

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chloride and butadiene nitril copolymer containing 36.9% groupings of nitril of acrylic acid and 63.1% butadiene groups, also discussed in detail in their first communication. By means of the thermometric balances of V. A. Kargin the authors establish the dependence of deformation upon temperature for polyvinyl chloride films containing various amounts of dibutyl phthalate or butadiene nitril copolymer. They find that the tested plasticizers each possess their own advantages: the low-molecular plasticizer dibutylphthalate ensures polyvinyl chloride a high-elastic state at lower temperatures than butadiene nitril copolymer. They show that the shape of the curves that characterize the variation of deformation with content in a mixture of plasticizer does not in principle differ from the shape of the curves that express the dependence of deformation upon temperature. They formulate the assumption that such an agreement depends upon the fact that both types of curves characterize the variation of deformation upon rupture of intermolecular bonds in polar groups, in the one case due to the action of temperature and in the other case due to the action of the plasticizer.

Institution :

Submitted : April 3, 1954

REZNIKOVA, R. A.

2673. Plasticizing of polyvinyl chloride by butadiene nitrile copolymers. V. Investigations on the compatibility of polymers in solution. S. S. VOYTSKI, A. D. ZALONCHROVENI and R. A. REZNIKOVA. *Koll. Zhur.*, 1950, 18, No. 5, 513-22. In continuation of work (*Rubt. Abs.* 1950, abs, 118) on the measurement of compatibility of butadiene-acrylonitrile copolymer and polyvinyl chloride from the mechanical and optical properties of films of mixtures of these polymers, the authors now investigate the compatibility of these polymers in solution, as a matter of theoretical interest and anticipated practical value. There are 14 references.

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REZNIKOVA, R. I.

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Approximate determination of copper in alloy containing  
 with rubeanic acid. Kh. Ya. Lyutman and R. I. Reznikova. *Izvest. Akad. Nauk Beloruss. S.S.R.* 1953, no. 8, 117-26. — Amperometric detn. of Cu in Al alloys, contg. also Mg, Fe, Si, Zn, Mn, Ni, and Cr, is described. Treat 0.5 g. of the Al alloy with 35 ml. 1:1 HCl, heat the mixt. carefully with the simultaneous addn. (drop by drop) of concd. HNO<sub>3</sub> until full solution of the alloy, transfer the contents, including the ppt. (SiO<sub>2</sub> and S), if any, into a volumetric 100-ml. flask, treat with 16 ml. of 0.1M NaF, neutralize with NH<sub>4</sub>OH, acidify with AcOH, and make to the mark with distd. water. Then transfer an aliquot of the soln. into the electrolyzer add 1% gelatin soln. (the final concn. of gelatin was 0.1%), expel the air by passing H<sub>2</sub> through for 10 min., and titrate the soln. amperometrically with a soln. of rubeanic acid (the diamine of thiozalic acid). With a voltage of 0.15 v. a characteristic "break" occurs in the titration curve resulting from the insolv. of the Co salt. In the titration of known solns. the Cu error was within the range of 0.09-5.8% (relative). The interference of Ni, Co, Zn, and Fe ions is eliminated in the AcOH acid medium by the addn. of NaF.

*Chem 2*

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